

Title (en)  
POLYSILOXANE POLYMERS EXHIBITING NONLINEAR OPTICAL RESPONSE

Publication  
**EP 0238789 A3 19871125 (EN)**

Application  
**EP 87100313 A 19870113**

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Abstract (en)  
[origin: EP0238789A2] This invention provides novel polysiloxane polymers which exhibit nonlinear optical response, and which have utility as a transparent optical component in electrooptic light modulator devices. An invention side chain liquid crystalline polysiloxane polymer is illustrated by the structure:

IPC 1-7  
**C08G 77/38**; C09K 19/40

IPC 8 full level  
**C08G 77/38** (2006.01); **C08G 77/382** (2006.01); **C08G 77/42** (2006.01); **C08G 77/44** (2006.01); **C09K 19/40** (2006.01); **G02F 1/35** (2006.01); **G02F 1/355** (2006.01); **G02F 1/361** (2006.01)

CPC (source: EP US)  
**C08G 77/38** (2013.01 - EP US); **C08G 77/382** (2013.01 - EP US); **C09K 19/408** (2013.01 - EP US); **G02F 1/3617** (2013.01 - EP US)

Citation (search report)

- [X] EP 0163495 A2 19851204 - TORAY SILICONE CO [JP]
- [X] EP 0140133 A2 19850508 - BASF AG [DE]
- [XP] EP 0172450 A2 19860226 - MERCK PATENT GMBH [DE]
- [X] DIE MAKROMOLEKULARE CHEMIE RAPID COMMUNICATIONS, vol. 1, no. 1, January 1980, pages 31-34, Heidelberg, DE; H. FINKELMANN et al.: "Investigations on liquid crystalline polysiloxanes, 1 synthesis and characterization of linear polymers"

Cited by  
EP0615152A1; FR2650287A1; US5053473A; US6429023B1; US6661942B1; WO9102018A1; WO9001505A1

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